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Docket No.: 1248-0867PUS1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Hitoshi NAOE et al.

Application No.: 10/577,337

Confirmation No.: 5138

Filed: April 28, 2006

Art Unit: 2613

For: TRANSMITTER, RECEIVER,  
COMMUNICATION SYSTEM,  
COMMUNICATION METHOD,  
COMMUNICATION PROGRAM

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION AFTER FILING OF AN APPLICATION BUT BEFORE FINAL**  
**REJECTION OR NOTICE OF ALLOWANCE OR CONCURRENTLY WITH A RULE**  
**1.114 RCE APPLICATION)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicants hereby submit an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-SB08(s), attached hereto.

II. COPIES

- ☒ a. Copies of cited U.S. patents and patent application publications are not included.  
Copies of foreign patent documents and non-patent literature are included.

☐ b. Some or all of the documents listed on the PTO-SB08 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

☐ c. REFERENCES PREVIOUSLY CITED OR SUBMITTED - Pursuant to 37 C.F.R. §1.98(d), consideration of information listed on the PTO-SB08 form(s) is requested since any patents, publications, or other information which are listed on the PTO-SB08 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s) and U.S. Filing Date

PCT/JP2005/014446 filed August 5, 2005

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

☐ a. DOCUMENTS IN THE ENGLISH LANGUAGE - The patents, publications, or other information listed on the attached PTO SB08 are in the English language and therefore, do not require a statement of relevancy.

☒ b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE - A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows: **English language abstracts and/or partial English translations are provided for: JP2000-069403; JP2001-083948; IEEEJ Technical Report – A Proposal of Next Generation Proximity Infrared Communication – Optimization of IrDA Protocol by IrSimple; General Conference 2005 of IEICE – Standardization Proposal of High Efficiency Protocols by Using Infrared Data Association; IEICE Communications Society Conference 2005 – High Efficiency Protocols (IrSimple) Using Infrared Communication – IrSimple Profile and Protocols at Infrared Data Association.**

- ☐ c. ENGLISH LANGUAGE SEARCH REPORT - An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).
- ☒ d. OTHER - The following additional information is provided for the Examiner's consideration.

**The following four (4) documents are hereby submitted with this Information Disclosure Statement:**

1. IrDA Serial Infrared Sequence Management Protocol for IrSimple – Version 1.00, October 14, 2005 (Cite No. CI)
2. IrDA Serial Infrared Link Management Protocol Specification for IrSimple Addition, Errata to IrLMP Version 1.1 – Ver 1.00, October 14, 2005. (Cite No. CJ)
3. IrSimple (Infrared Simple) Profile – Version 1.00, October 14, 2005. (Cite No. CK)
4. IrDA Serial Infrared Link Access Protocol Specification for IrSimple Addition, errata to IrLAP Version 1.1 – Version 1.00, October 14, 2005. (Cite No. CL)

Each document is a public version dated October 14, 2005. Two copies of each are hereby submitted. Applicant has marked a first copy of each, identified with a letter "A" on the first page thereof, with numerous markings in several colors to indicate portions that were added, modified or deleted in various versions of the standard at various dates. The versions are identified as Yellow – Ver. 0.5; Green – Ver. 0.6; Orange – Ver. 0.8; and Pink – Ver. 1.0.

In view of concerns that the colored markings will not reliably scan into the electronic image system used by the USPTO to thus create a reliable record, a second copy of each document, identified with a letter "B" on the first page thereof, is also hereby submitted. These copies are marked in a different manner. Specifically, portions corresponding to the yellow markings for Ver. 0.5 are marked with underscoring; portions corresponding to the green markings for Ver. 0.6 are marked with a box surrounding such portions; portions corresponding to the orange markings for Ver. 0.8 are marked with brackets [ ]; and portions corresponding to the pink markings for Ver. 1.0 are surrounded by slashes / /.

**Portions indicated to be associated with the various versions are believed to have the following effective dates, which differ from the October 14, 2005 publication date noted on the documents:**

**Ver. 0.5 – February 15, 2005**

**Ver. 0.6 – May 13, 2005**

**Ver. 0.8 – May 31, 2005**

**Ver. 1.0 – August 25, 2005**

IV. FEES (check one box)

☐ a. This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

☐ b. This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

☐ c. This Information Disclosure Statement is being filed within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.  
*(This section is not to be used with RCE's.)*

☐ d. This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.

☐ e. This Information Disclosure Statement is being filed concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required.

☒ f. This Information Disclosure Statement is being filed before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account for the fee as required by 37 C.F.R. § 1.17(p).

☐ g. This Information Disclosure Statement is being filed before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

☐ No statement; therefore, a fee as required by 37 C.F.R. § 1.17(p) is attached.

or

☐ See the statement below. No fee is required.

V. STATEMENT UNDER 37 C.F.R. § 1.97(e)

(check only one box)

The undersigned hereby states that:

☐ a. **Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than 30 days prior to the filing of this IDS; or**

☐ b. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ c. No item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS.

☐ d. Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to

the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VI. PAYMENT OF FEES (check one box)

☐ The required fee is listed on the attached Fee Transmittal.

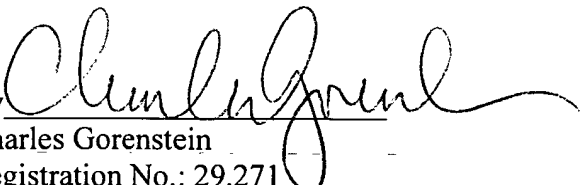
☒ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: March 9, 2007

Respectfully submitted,

By   
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Registration No.: 29,271  
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Attachments:

- 1) PTO-SB08
- 2) Documents



PTO/SB/08A/B (09-06)  
Approved for use through 03/31/2007. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/577,337
				Filing Date	April 28, 2006
				First Named Inventor	Hitoshi NAOE
				Art Unit	2613
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	1248-0867PUS1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	JP2000-069403	03-03-2000	Casio Comput Co. Ltd.		X
	BB	JP2001-083948	03-30-2001	Canon Inc.		X
	BC	WO02/23885A1	03-21-2002	Koninklijke Philips Electronics N.V.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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PTO/SB/08A/B (09-06)  
Approved for use through 03/31/2007. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/577,337
				Filing Date	April 28, 2006
				First Named Inventor	Hitoshi NAOE
				Art Unit	2613
				Examiner Name	Not Yet Assigned
Sheet	2	of	1	Attorney Docket Number	1248-0867PUS1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	KITAZUMI et al., A proposal of next generation proximity infrared communication – Optimization of IrDA protocol by IrSimple, IIEEJ Technical Report	x
	CB	NAOE et al., Standardization Proposal of High Efficiency Protocols by Using Infrared Data Association, General Conference 2005 of IEICE	x
	CC	NAOE, et al., High Efficiency Protocols (IrSimple) Using Infrared Communication – IrSimple Profile and Protocols at Infrared Data Association, IEICE Communications Society Conference 2005	x
	CD	HEWLETT-PACKARD et al., Infrared Data Association Serial Infrared Physical Layer Specification, Version 1.4, May 30, 2001	
	CE	WILLIAMS, et al., Infrared Data Association – Serial Infrared Link Access Protocol (IrLAP), Version 1.1, June 16, 1996	
	CF	SEABORNE et al., Infrared Data Association – Link Management Protocol, Version 1.1, January 23, 1996	
	CG	WILLIAMS, et al., Infrared Data Association – Tiny TP: A Flow-Control Mechanism for use with IrLMP, Version 1.1, October 20, 1996	
	CH	MEGOWAN, et al., Infrared Data Association – (IrDA®) Object Exchange Protocol OBEX™, Version 1.3, January 3, 2003	
	CI	NAOE, et al., Infrared Data Association – IrDA Serial Infrared Sequence Management Protocol for IrSimple, Version 1.00, October 14, 2005	
	CJ	NAOE, et al., Infrared Data Association, IrDA Serial Infrared Link Management Protocol Specification for IrSimple Addition, Errata to IrLMP Version 1.1, Ver. 1.00, October 14, 2005	
	CK	NAOE, et al., Infrared Data Association, IrSimple (Infrared Simple) Profile, Version 1.00, October 14, 2005	
	CL	NAOE, et al., Infrared Data Association, IrDA Serial Infrared Link Access Protocol Specification for IrSimple Addition, Errata to IrLAP Version 1.1, Version 1.00, October 14, 2005	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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